

# Fact Sheet



## For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-09500007-2021**

Application Received: **November 19, 2020**

Plant Identification Number: **095-00007**

Permittee: **Eastern Gas Transmission and Storage, Inc.**

Facility Name: **Deep Valley Compressor Station**

Mailing Address: **925 White Oaks Blvd., Bridgeport, WV 26330**

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Physical Location:	Deep Valley, Tyler County, West Virginia
UTM Coordinates:	512.34 km Easting • 4355.01 km Northing • Zone 17
Directions:	Travel North West on State Route 18 from West Union. At Deep Valley take Route 56 and then follow approximately 2 miles up Raymond Ridge Road (County Route 56/1) to the site.

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### Facility Description

Deep Valley Station is a natural gas compressor station used to compress gas for Eastern Gas Transmission and Storage, Inc.'s pipeline system in West Virginia. The reciprocating engines at the facility receive natural gas from a valve on a pipeline and compress it to enable further transportation in the pipeline. The facility operates under SIC Code 4922.

## Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2019 Actual Emissions
Carbon Monoxide (CO)	55.0	24.50
Nitrogen Oxides (NO <sub>x</sub> )	324.90	142.30
Particulate Matter (PM <sub>2.5</sub> )	2.30	0.41
Particulate Matter (PM <sub>10</sub> )	2.30	0.41
Total Particulate Matter (TSP)	2.90	0.41
Sulfur Dioxide (SO <sub>2</sub> )	0.10	0.01
Volatile Organic Compounds (VOC)	135.90	53.74

  

Hazardous Air Pollutants	Potential Emissions	2019 Actual Emissions
Benzene	0.50	0.04
Acetaldehyde	0.40	0.15
Acrolein	0.40	0.15
Ethylbenzene	0.20	0.00
Formaldehyde	3.10	1.04
Hexane	0.20	0.02
Toluene	1.70	0.04
Xylene	6.70	0.06

### Title V Program Applicability Basis

This facility has the potential to emit 324.90 tons/year of Nitrogen Oxides (NO<sub>x</sub>) and 135.90 tons/year of Volatile Organic Compounds (VOC). Due to this facility's potential to emit over 100 tons per year of criteria pollutants, Eastern Gas Transmission and Storage, Inc. is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

### Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR2	Opacity Requirements for boilers
	45CSR6	Open burning prohibited
	45CSR10	Sulfur requirements for fuel burned
	45CSR11	Standby plans for emergency episodes
	45CSR13	Construction Permits
	45CSR16	Emission Standards for New Stationary Sources
	WV Code § 22-5-4 (a)(14)	The Secretary can request any pertinent information such as annual emission inventory reporting
	45CSR30	Operating permit requirement
	45CSR34	Emission Standards for Hazardous Air Pollutants
	40 CFR Part 61	Asbestos inspection and removal
	40 CFR Part 60, Subpart JJJJ	NSPS for Stationary Spark Ignition Internal Combustion Engines
	40 CFR Part 63, Subpart HH	MACT for Oil and Natural Gas Production Facilities
	40 CFR Part 63, Subpart ZZZZ	MACT for Engines
	40 CFR Part 82, Subpart F	Ozone depleting substances
State Only:	45CSR4	No objectionable odors.
	45CSR17	Fugitive PM Control for Materials Handling & Storage

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

### Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )
R13-1104F	08/31/2015	N/A
G60-C029	02/10/2011	N/A

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's

operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

## **Determinations and Justifications**

This is a fourth renewal. The changes to the Title V permit since the last renewal are as follows:

- Class II General Permit G60-C was superseded and replaced by Class II General Permit G60-D. Therefore, all the general permit requirements, included in this Title V permit, are based on the latest version of the general permit (G60-D).
- The Emergency Engines (EG01 and EG02) have applicable requirements from R13 General Permit Registration G60-C029 and General Permit G60-D. These requirements have been included in the Section 6.0 of this permit.
- Conditions 5.1.1 and 5.2.6 from the previous Title V permit were not included in this permit per the company's request. 45CSR§10-4.1 sets an in-stack sulfur dioxide concentration limit of 2,000 parts per million by volume, but 45CSR§10-4.1.e. exempts facilities from this limit if the potential to emit SO<sub>2</sub> is less than 500 lbs/year. Deep Valley Compressor station is exempt from 45CSR§10-4.1; reported facility-wide PTE of SO<sub>2</sub> is 100 lbs/year. (Note: The company has rounded up the SO<sub>2</sub> PTE from 0.05 tons per year to 0.1 for the Title V Fact Sheet's Emissions Summary Table).
- Conditions 5.1.2 and 5.2.7 from the previous Title V permit were not included in this permit per the company's request. Pipeline-quality natural gas cannot contain more than 20 grains total sulfur per 100 cubic feet of gas, which is much less than 50 grains H<sub>2</sub>S per 100 cubic feet of gas. Therefore, Deep Valley Compressor station is not subject to 45CSR§10-5.1.
- Condition 5.1.8 was removed from this permit per the company's request. DEHY01 has been permanently removed from the facility.

## **Non-Applicability Determinations**

The following requirements have been determined not to be applicable to the subject facility due to the following:

45 CSR 10 - Compressor engines (EN01 and EN02) have been excluded from the applicability of SO<sub>2</sub> and H<sub>2</sub>S limits. WVDEP determined that 45 CSR 10 is not applicable to compressor engines.

40 CFR 60 Subpart JJJJ - The compressor engines (EN01 and EN02) are not subject to this subpart since they were installed in 1989, before the applicability date.

40 CFR 60 Subpart OOOO - This subpart does not apply to the facility since the facility is a gathering facility that does not have tanks constructed, modified, or reconstructed after August 23, 2011.

40 CFR Part 63, Subpart HH - In accordance with 40 CFR §63.760(b)(2), each TEG GDU located at an area source that meets the requirements under 40 CFR § 63 .760(a)(3) is defined as an affected facility under Subpart HH. However, for a GDU, exemptions to these requirements are given under 40 CFR §63.764(e) if: (1) actual annual average flowrate of natural gas to the GDU is less than 85 thousand standard cubic meters [3 mmscf] per day, or (2) actual average emissions of benzene from the GDU process vent to the atmosphere are less than 0.90 megagram [1 ton] per year. The maximum aggregate PTE of benzene emissions from the GDU process vent is 0.35 tpy, therefore the GDU is exempt from the requirements of 40 CFR § 63.764(d).

40 CFR 63 Subpart HHH - This subpart does not apply to the facility since the facility is not a transmission or storage station and is not a major source of HAPs.

40 CFR 63 Subpart DDDDD - The reboiler (RBR01) is not subject to this subpart since the facility is not a major source of HAPs.

40 CFR 63 Subpart JJJJJ - The reboiler (RBR01) is not subject to this subpart since it is considered a “process heater,” which is excluded from the definition of “boiler”.

40 CFR Part 64 - Compliance Assurance Monitoring. There have been no changes in this permit since the previous renewal was issued, so CAM remains not applicable to any emission unit listed in the renewal application.

### **Request for Variances or Alternatives**

None

### **Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

### **Comment Period**

Beginning Date: June 23, 2021

Ending Date: July 23, 2021

### **Point of Contact**

All written comments should be addressed to the following individual and office:

Beena Modi  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0499 ext. 41283  
[Beena.j.modi@wv.gov](mailto:Beena.j.modi@wv.gov)

### **Procedure for Requesting Public Hearing**

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

### **Response to Comments (Statement of Basis)**

Not applicable.